



# HDAX<sup>®</sup> 9500 GAS ENGINE OIL

## SAE 40

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### PRODUCT DESCRIPTION

HDAX<sup>®</sup> 9500 Gas Engine Oil is a premium quality, high performance, low ash dispersant/detergent type SAE 40 gas engine oil, specifically formulated for landfill gas, biogas, digester gas and sour gas applications.

### CUSTOMER BENEFITS

HDAX 9500 Gas Engine Oil delivers value through:

- **Maximizes oil service life** — Combination of high performance premium base fluids and a robust inhibitor package offers extended service protection with oxidation and nitration resistance and good base retention.
- **Minimizes operating costs** — Low oil consumption from excellent piston deposit control with extended drain capability keeps equipment in service longer, generating revenue.
- **Long Engine Life** — Formulated to protect from corrosive wear in engines burning harsh landfill and sour gas fuels. Protects against valve train wear and scuffing of highly loaded parts operating under boundary lubrication conditions. Level and type of ash producing additives controls valve recession and potential for pre-ignition.
- **Minimizes maintenance costs** — Exceptional oxidation resistance and dispersancy minimizes sludge formation, protects against filter plugging, abrasive polishing wear and oil thickening. Special formulation gives excellent corrosion control in engines burning high chlorofluorocarbon (CFC) and / or high sulfur containing fuels where high level of acidic condensate form. This exceptional corrosion control ensures maximum liner life even in intermittent operation.
- **Advanced catalyst protection** — Low phosphorus technology formulation promotes reliable catalyst performance and protection.

### FEATURES

HDAX 9500 Gas Engine Oil is a premium quality, high performance, low ash dispersant/detergent type SAE 40 gas engine oil, specifically formulated for landfill gas, biogas, digester gas and sour gas applications. The combination of high performance premium base fluids and a robust inhibitor package provides exceptional protection and extended service protection for engines burning aggressive sour gases.

HDAX 9500 Gas Engine Oil provides excellent corrosion resistance in landfill gas, biogas, digester gas and sour gas applications, even when intermittent operation results in the formation of significant levels of acidic condensate. At 0.6 m% sulfated ash, HDAX 9500 Gas Engine Oil gives this performance without the higher levels of combustion chamber deposits compared to some other products used in these applications.

It also provides excellent valve recession control for four stroke engines where low ash oil is preferred.

HDAX 9500 Gas Engine Oil provides excellent deposit control on pistons minimizing ring sticking; providing scuffing protection to the cylinder liners, minimizing oil consumption and lacquering. Excellent engine cleanliness promotes long component life.

### APPLICATIONS

HDAX 9500 is recommended for:

- Sour gas applications where corrosive wear is a special concern
- Engines where low ash oils are preferred

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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HDAX® 9500 is approved for:

- Jenbacher TA 1000-1109, Fuel Class B (biogas, sewage gas) and Class C (landfill gas) for the following engine types and versions:
  - Type 2 and 3
  - Type 4 Version A
  - Type 4 Versions B and D
  - Type 6 Versions C and E
- **MAN Truck and Bus** M3271-5 for special gas. MAN Approval Number TUC 1849/21
- **TEDOM** meeting requirement 61-0-0281.1 for fuel types: G (natural gas), P (propane-butane), L (landfill), B (biogas), and S (sewage gas).

HDAX 9500 is suitable for use in the following engines burning landfill gas or biogas fuels:

- **Caterpillar**
- **Waukesha**

The total base number, or TBN retention, excellent deposit control and minimum viscosity increase the performance of HDAX 9500 Gas Engine Oil, making this premium oil especially suited for extended drain service in four stroke gas engines.

### TYPICAL TEST DATA

<b>SAE Grade</b>	<b>40</b>
<i>Product Number</i>	262426
<i>SDS Number</i>	57222
Viscosity Grade	SAE 40
Density at 15°C, kg/L	0.8725
Viscosity, Kinematic mm <sup>2</sup> /s at 40°C	116
mm <sup>2</sup> /s at 100°C	13.4
Viscosity Index	113
Flash Point, °C(°F)	270(518)
Pour Point, °C(°F)	-33(-27)
Sulfated Ash, m %	0.6
Acid Number, ASTM D664, mg KOH/g	1.1
Base Number, ASTM D2896, mg KOH/g	5.4

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.